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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/649,088	08/07/2000	Shrikumar Hariharasubrahmanian	SHRIKUMAR	5951
7590 12/04/2003			EXAMINER	
ROBERT A. CESARI CESARI AND MCKENNA, LLP 88 BLACK FALCON AVENUE BOSTON, MA 02201			BLOUNT, STEVEN	
			ART UNIT	PAPER NUMBER
			2661	/
			DATE MAILED: 12/04/200	3 <i>b</i>

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
Office Action Summary		09/649,088	HARIHARASUBRAHMANIAN, SHRIKUMAR				
		Examiner	Art Unit				
		Steven Blount	2661				
Period fo	The MAILING DATE of this communication a or Reply	appears on the cover sheet	with the correspondence address				
THE I - External after - If the - If NC - Failu - Any I	ORTENED STATUTORY PERIOD FOR REF MAILING DATE OF THIS COMMUNICATION nsions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reperiod for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by state the provided by the Office later than three months after the material patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, may a reply within the statutory minimum of the od will apply and will expire SIX (6) Mo tute, cause the application to become	a reply be timely filed nirty (30) days will be considered timely. DNTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).				
1)⊠	Responsive to communication(s) filed on <u>07</u>	' October 2002.					
2a) <u></u>	This action is FINAL . 2b)⊠ Th	nis action is non-final.					
3)	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims						
4)🖂	4)⊠ Claim(s) <u>1-26</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)	5) Claim(s) is/are allowed.						
6)⊠	☑ Claim(s) <u>1-26</u> is/are rejected.						
7)	Claim(s) is/are objected to.						
8)[Claim(s) are subject to restriction and	d/or election requirement.					
Applicati	on Papers						
	The specification is objected to by the Exami		a by the Everniner				
10)	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)	The oath or declaration is objected to by the						
M ()		ZAGITIMOT TO GITO GITO GITO					
	under 35 U.S.C. §§ 119 and 120 Acknowledgment is made of a claim for fore	ign priority under 35 U.S.C	. § 119(a)-(d) or (f).				
a) * S 13)	☐ All b)☐ Some * c)☐ None of: 1.☐ Certified copies of the priority docume 2.☐ Certified copies of the priority docume 3.☐ Copies of the certified copies of the priority docume application from the International Bure see the attached detailed Office action for a link acknowledgment is made of a claim for dome ince a specific reference was included in the 7 CFR 1.78.) ☐ The translation of the foreign language packnowledgment is made of a claim for dome	ents have been received. ents have been received in riority documents have bee eau (PCT Rule 17.2(a)). ist of the certified copies no estic priority under 35 U.S.C first sentence of the specif	Application No In received in this National Stage of received. C. § 119(e) (to a provisional application) ication or in an Application Data Sheet. been received.				
	eference was included in the first sentence of						
Attachmen		_					
2) 🔲 Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s	5) Notice of	Summary (PTO-413) Paper No(s) Informal Patent Application (PTO-152)				

Art Unit: 2661

Claim Rejections - 35 USC § 112

- 1. Claim 11 is objected to, "instrucitons" in lines 2 3 a typographical error.
- 2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claims 3 4 and 7; and 8 10 and 26 are rejected under 35 U.S.C. 112 second paragraph for failing to particularly point out and distinctly claim the subject matter which the applicant regards as their invention.

In claim 3, since the psudo-header is already denoted to be in the data field in claim 1, claim 3 does not further limit claim 1. In claim 8, "the protocol data field" mentioned in line 6 is indefinite, because it is not properly defined. In the specification on page 18 lines 4+, it is stated that the protocol field, which is in the header, "includes data that identifies the type of transport protocol". If the data is in the header, then how can you generate a pseudo-header "after the protocol header" and "before the protocol data field"? Further, "the protocol data field" lacks antecedent basis. In claim 10, an "additional checking step" is performed, but there is not a "previous" checking step mentioned in claims 8 or 9 which would make an "additional" step of this form possible. With regard to claim 26, the examiner requests that the language in the preamble be changed to language such as "a device for implementing the method according to claim 20, wherein.....".

4. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Art Unit: 2661

5. Claims 8 and 11 are rejected under 35 U.S.C. 112 first paragraph for failing to provide a specification that would enable one of ordinary skill in the art to make and use the invention.

In claims 8 and 11, there is no support for placing a psudoheader after the protocol header and before the protocol data field.

Claim Rejections - 35 USC § 103

6. Claims 1 – 7 and 18 - 26 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. patent 6,625,147 to Yokoyama et al in view of U.S. patent 6,590,903 to Hofers et al.

With regard to claim 1, Yokoyama et al teaches transmitting data with psudo-headers, and also teaches recalculating the FCS in col 8, lines 20+, before rewriting the transfer packet. It is also well known that TCP/IP uses "reply packets" (ie, ack/nak) to reply to whether a message was successfully sent or not. Yokoyama et al does not however teach formatting the psudo-header "within" (ie, inside) the data field; see col 7, lines 65+: "with the IP header and the TCP/UDP header being added to a data field".

Hofers et al is cited for the fact that it is known to carry protocol conversion data within the data field. See col 5, lines 60+ (the examiner further believes that there is no appreciable difference between adding the information to the data field (ie, at the base) as opposed to within the field, and that it would be obvious even without the teachings of Hofers et al. See, importantly, page 14, line 16 of the specification "The network layer 330 may generate packets called datagrams by attaching, *to the data field*, an IP header 332 and trailer 334" (emphasis added)).

Art Unit: 2661

It would have been obvious to one of ordinary skill in the art at the time of the invention to have placed the psudo-header information of Yokoyama et al "within" the data field, in light of the teachings of Hofers, in order to allow for a greater variety of places to place the data in the packet and hence allow for a less rigid protocol.

With regard to the following claims (hereinafter referred to as "Cl") note the following:

CI 2: UDP is mentioned in line 67; CI 3: note the above; CI 4 and 7: see col 8, lines 20+; CI 5 - 6: see see col 7, line 67; with regard to claims 18 – 20, see col 8, lines 20+ (especially lines 21 and 25). With regard to claims 21 – 26, see the rejections above, including the logic circuitry in figure 3.

7. Claims 8 – 17 are rejected under 35 U.S.C. 103(a) as being obvious over U.S. patent 6,625,147 to Yokoyama et al.

With respect to claims 8 and 11, Yokoyama et al teaches the invention as described above including adding the IP header to the data field (col 7, lines 65+) which corresponds to generating "at least one pseudo-header after the protocol header and before the protocol data field" (lines 5 – 6 of claim 8, corresponding to page 14, lines 16+ as best understood by the examiner in view of the 112 rejections above). Although a memory is not specifically mentioned in Yokoyama, it is inherently part of the system. With regard to claim 9, generating replies in systems such as these is well known in the art. With regard to claim 10, note the use of FCS above. With regard to claims 12 – 17, see the rejections above.

Art Unit: 2661

7. Claims 1, 8, 11, and 21 are rejected under 35 U.S.C. 103(a) as being obvious over U.S. patent 6,590,903 to Hofers et al in view of applicants admitted prior art (AAPA).

With regard to claims 1 and 21, Hofers teaches protocol conversion using a psudo-header comprised of information within a frame. Hofers et al does not however teach the use of a reply packet, or a validity check.

AAPA teaches replying in page 3, third to last line. Further, validity checking through such means as FCS are extremely well known in the art. It would have been obvious to one of ordinary skill in the art at the time of the invention to have provided Hofers with a reply means, in light of the teachings of AAPA, in order to provide a means for allowing for more reliable communication.

With regard to claim 8, see col 5 lines 30 and 60+, and note that it would be obvious to have the pseudo-header after the protocol header field and before the data field, as having it in the data field is an obvious equivalent to having it before the data field.

With regard to claim 11, see the rejection of claim 8 above, and note that the process is implementable in a computer using a program stored on a computer readable medium.

8. Claim 18 is rejected under 35 U.S.C. 103(a) as being obvious over U.S. patent 6,590,903 to Hofers et al.

Art Unit: 2661

Page 6

With regard to claim 18, see col 2 lines 25+ and note that while the identification of the "prefix" is not explicitly mentioned, the teachings provided in Hofers et al would render this obvious.

9. Steven Blount may be reached at 703-305-0319 Monday through Friday between the hours of 9:00 and 5:30 P.M.

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